

Notice of Allowability

Application No.

09/880,701

Examiner

Pramila Parthasarathy

Applicant(s)

NOEHRING ET AL.

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 1/18/2006 and interview held on 2/15/2006.
2. ☒ The allowed claim(s) is/are 1-4,6-11,13-18,20-23,25-29 and 31-37; Renumbered as 1-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 2/15/2006.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


AYAZ SHEIKH

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

1. The text of those sections of Title 35 U.S.C. Code not included in this section can be found in the prior office action.
2. The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.
3. Claims 1 – 4, 6 – 11, 13 – 18, 20 – 23, 26 – 29 and 31 - 37 are pending.

Response to Arguments

4. Applicant's arguments filed on September 19, 2005 have been fully considered and they are persuasive in view of a telephone interview with Lee P. Noehring, David Casseti and Paul D. Amrozowicz.

Allowable Subject Matter

5. Claims 1 – 4, 6 – 11, 13 – 18, 20 – 23, 26 – 29 and 31 - 37 are allowed. Allowed claims are renumbered as 1 – 32.

6. Baker (US Patent Number: 5,948,080) and Krishna et al. (US Patent Number: 6,477,646) disclose a method and system for assigning a data packet to a data communication channel or DMA channel that includes the step of receiving at least a portion of a data packet in a data packet comparison circuit by comparing at least the portion of the data packet to a predetermined data set. Baker further discloses that the invention provides a programmable, flexible and adaptable way to determining that a particular data packet should go to a particular DMA communications channel. Krishna et al. discloses a method for a cell-based packet processing architecture allowing the implementation of a processing pipeline that has known processing throughput and timing characteristics, making it possible to fetch and process the cells in a predictable time frame. Krishna further discloses an IPSec processing chip implemented by having 3DES-CBC and MD5/SHA1 processing blocks and Diffie-Hellman or RSA and DSA public key processing.

7. The following is an examiner's statement of reasons for allowance: The Admitted prior art does not disclose, teach or suggest "a transmitting (Tx) direct memory access (DMA) interface receiving a streamed security data packet, selecting a least busy channel for processing the streamed security data packet, based on an amount of buffer space available for a channel in an external memory, and transferring the streamed security data packet to the external memory;"


8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pramila Parthasarathy whose telephone number is 571-272-3866. The examiner can normally be reached on Tuesday – Thursday 8:00a.m. To 3:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-232-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR only. For more information about the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pramila Parthasarathy
March 02, 2006.


AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100